

# **Region 3 GPRA Baseline RCRA Corrective Action Facility**

## **SAFETY-KLEEN SYSTEMS, INC.**

Chester Service Center

Chester Service Center  
1200 W. Hundred Road  
Chester, VA 23836  
Congressional District 4  
EPA ID #: VAD981043011  
Last Updated January 4, 2008

**Aerial Location Map**



**Projection:** North American Datum 1983 / UTM Zone 18N  
**Provider:** U.S. Geological Survey  
**Date:** 03/17/1994

**Topographic Location Map**



**Projection:** North American Datum 1983 / UTM Zone 18N  
**Provider:** U.S. Geological Survey  
**Date:** 07/01/1996

## **Current RCRA CA Activities**

RCRA Corrective Action (CA) activities at the Safety-Kleen Systems, Inc. (Safety-Kleen) facility in Chester, Virginia, are currently being conducted under the direction and oversight of the Virginia Department of Environmental Quality (DEQ). The CA investigations and any necessary clean up activities are being implemented in accordance with the conditions and requirements of the facility's Hazardous Waste Management Permit for the Storage and Treatment of Hazardous Waste (Permit). The facility's current Permit contains CA requirements for continuing releases and protection of human health and the environment.

It should be noted that in 1991, the above Safety-Kleen facility was issued a Hazardous and Solid Waste Amendments (HSWA) Corrective Action Permit from the EPA under the HSWA of 1984 provisions of the Resource Conservation and Recovery Act ("RCRA"), 42 U.S.C. §§6901

et seq. Therefore, from 1991 through 2000, CA activities at the facility were under the direction of the EPA Region III.

The facility's current Hazardous Waste Management Permit for the Storage and Treatment of Hazardous Waste was originally issued by the DEQ with an effective date of August 14, 1996, for a 10-year period until August 14, 2006, under the Virginia Hazardous Waste Management Regulations (VHWMR). Since issuance of the original Permit, the VHWMR has been amended to incorporate the requirements of the Resource Conservation and Recovery Act (RCRA) Regulations by reference and includes the regulatory requirements of the HSWA of the RCRA of 1984.

The facility's Hazardous Waste Management Permit was reissued by the DEQ with an effective date of October 24, 2007, and is valid for a 10-year period until October 24, 2017. The reissued Permit authorizes the facility's storage and treatment operations and incorporates site-wide Corrective Action (CA) requirements of the HSWA.

On October 2, 1998, Safety-Kleen completed the connection of a private residence to the Chesterfield County public water supply, and disabled the residential well. Drinking water samples collected from this residential well were found to contain the same volatile organic compounds that were also found in Safety-Kleen's two groundwater monitoring wells.

In mid-July 1998, Safety-Kleen installed two new groundwater monitoring wells in an attempt to confirm the direction of the groundwater flow. Three rounds of groundwater monitoring well samples were taken and analyzed (7/98, 1/99, 7/99).

After reviewing the analytical results of groundwater samples collected during nine (9) sampling events, a downward trend in the concentration of the two (2) contaminants of concern, tetrachloroethene and 1, 1-dichloroethene, is evident. By August, 22, 2002, when the wells at the site were last sampled, two wells and a piezometer remain functioning at the facility site.

The downward trend in tetrachloroethene and 1, 1-dichloroethene has been maintained at the site through the August, 22, 2002, sampling event. The facility has agreed to conduct additional groundwater sampling at mutually agreed upon locations to fill the data gap for former UST sites. The facility is required to submit bi-monthly progress reports under the Corrective Action portion of operating Permit issued by DEQ.

Safety-Kleen submitted an Addendum to the Alternate Groundwater Monitoring Plan, initially dated December 05, 2002. On June 02, 2006, the addendum to the Alternate Groundwater Monitoring Plan was conditionally approved by the DEQ. The above Plan specifies the grab sample techniques to be utilized in the groundwater monitoring. Safety-Kleen has completed its implementation of the sampling under the Addendum to the Alternate Groundwater Monitoring Plan and the DEQ has reviewed the subsequent Groundwater Sampling Event Report.

The DEQ will further evaluate the groundwater information and make a determination whether no further corrective action will be necessary at this time for Safety-Kleen, under the Hazardous

and Solid Waste Amendments of 1984 (HSWA) provisions of the Resource Conservation and Recovery Act (“RCRA”), 42 U.S.C. §§6901 et seq.

## Site Description

---

The Safety-Kleen, Chester Service Center, is located in Chester, Virginia, on a 9.34 acre site. The facility site was purchased by Safety-Kleen from a petroleum supplier in the early 1980s.

Since the early 1980’s, the Safety-Kleen facility has been providing solvent distribution, collection and reclamation services to companies primarily engaged in automobile repair, industrial maintenance, photo processing and dry cleaning. The above facility is located in a suburban setting, bordered by community and general business (zoned), along with residential areas, and is located approximately 1.5 miles south of James River.

## RCRA CA Milestones

---

To date the following RCRA CA milestones have been completed at this Safety-Kleen facility in Chester, Virginia:

- January 1990, RFA.
- In 1991, the Facility obtained a HSWA Corrective action permit from EPA
- April 13, 1992, a RCRA Facility Investigation (RFI) Work Plan was approved.
- August 03, 1992, a Corrective Measures Study (CMS) Work Plan was approved.
- April 29, 1993, a RFI Report was approved.
- September 10, 1999, RFI Imposition.
- June 02, 2006, the DEQ approved the Addendum to the Alternate Groundwater Monitoring Plan, initially dated December 05, 2002.
- September 07, 2006, Safety-Kleen completed implementation of its December 05, 2002 Alternate Groundwater Monitoring Plan and the associated approved Addendum of June 02, 2006.

## Environmental Indicator Status

---

Under the Government Performance and Results Act (GPRA), EPA has set national goals to address high priority RCRA Corrective Action facilities by the year 2008. EPA is evaluating two key Environmental Indicators (EIs) for each facility: Current Human Exposures Under Control

and Migration of Contaminated Groundwater Under Control. This facility is one of EPA Region III's high priority facilities and falls under this initiative.

Virginia's current evaluation of Environmental Indicators for this facility is as follows:

- *Human Exposures Controlled Determination:* The DEQ has made the EI determination of "yes, that current human exposures are under control." The above determination is based upon the DEQ's Current Human Health Environmental Indicator (HHEI) Determination Report, CA725, dated September 2003. This above HHEI determination is considered current, effective January 4, 2008.
- *Release to Groundwater Controlled Determination:* The DEQ has made the EI determination of "yes, that migration of contaminated groundwater is under control," based upon the review of CA information for the CCP site contained in the EI determination Report, CA750, dated September 2003. The above EI determination indicates that the migration of "contaminated" groundwater is believed to be under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the "existing area of contaminated groundwater." This EI determination is considered current, effective January 4, 2008.

## Contaminants

---

Soils and Subsoils	Mineral Spirits
Groundwater	1, 1 dichloroethene; tetrachloroethene

## Institutional Controls

---

Private water supply wells have been tested and public water has been supplied to one home.

## Community Involvement

---

Mr. Denis D. Capor, an inspector with the Chesterfield County Health Department, provided the following services for EPA:

1. Confirmed the existence of four residential drinking water wells in close proximity to the Chester Service Center.
2. Obtained permission to collect drinking water samples from the owners of these four residential wells.
3. Acted as an escort for the EPA sampling team when the drinking water samples were collected and agreed to explain the analytical results for the drinking water samples to the owners of the four residential wells.

On October 2, 1998, Safety-Kleen completed the connection of one private residence to the Chesterfield County public water supply, and disabled the residential well. Drinking water samples collected from this residential well were found to contain the same volatile organic compounds that were also found in Safety-Kleen's two groundwater monitoring wells. This activity to protect human health was a success, in large part, due to the involvement and efforts of Mr. Capor and the Chesterfield County Health Department.

The Administrative Record has been made available at the repository listed below to give the community access to the CA related documentation. The Administrative Record containing relevant information is available for public review at the following location:

Chesterfield County Health Department  
9501 Lucy Corr Circle  
P.O.Box 100  
Chesterfield, VA 23832-0040  
Contact: William R. Nelson, MD, MPH District Health Director  
Phone: (804) 748-1691

The documents may be reviewed during normal business hours, Monday-Friday, 8:30 AM – 5:00 PM. For more information, please visit the Chesterfield Health Department's website at:  
<http://www.vdh.virginia.gov/LHD/cfield/cfield.asp>

## **Government Contacts**

---

The Commonwealth of Virginia has the lead CA authority for this project. Please contact the DEQ project manager listed below for details on this project or the contents of this factsheet.

### **DEQ Project Manager**

Ryan J. Kelly  
Environmental Engineer  
Department of Environmental Quality  
629 East Main Street  
P.O. Box 1105  
Richmond, VA 23218  
Phone: (804) 698-4045  
Fax: (804) 698-4234  
Email: [rjkelly@deq.virginia.gov](mailto:rjkelly@deq.virginia.gov)

### **EPA Project Manager**

Mr. Mike Jacobi - 3WC23  
U.S. Environmental Protection Agency - Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029  
Phone: (215) 814-3435  
Email: [jacobi.mike@epa.gov](mailto:jacobi.mike@epa.gov)

For more information about EPA's CA program, including Environmental Indicators, please visit EPA's website at: [www.epa.gov/reg3wcmd/correctiveaction.htm](http://www.epa.gov/reg3wcmd/correctiveaction.htm).

## Facility Contact

---

The facility contact, as listed in the RCRA Permit, is:

Mr. Todd M. Blake  
EHS Manager  
Safety-Kleen Systems, Inc.  
6180 Old Mendenhall Road  
Archdale, NC 27263  
Phone: (336) 644-0332  
Email: [todd.blake@safety-kleen.com](mailto:todd.blake@safety-kleen.com)

## Fact Sheet Update

---

The previous fact sheet was updated July 2007. The next fact sheet update is scheduled for July 2008. Previous fact sheets may be obtained through the listed DEQ contact.